

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-2. (Canceled)

3. (Currently Amended) ~~The A~~ magnetic core composition for an xDSL modem transformer as set forth in claim 1, having a main component comprised of MnO: 23.8 to 24.2 mol%, ZnO: 23.0 to 23.4 mol%, and Fe₂O₃: 52.6 to 53.0 mol%.

4. (Currently Amended) ~~The A~~ magnetic core composition for an xDSL modem transformer as set forth in claim 1, having a main component comprised of MnO: 26.1 to 26.5 mol%, ZnO: 20.1 to 20.5 mol%, and Fe₂O₃: 53.2 to 53.6 mol%.

5. (Currently Amended) ~~The A~~ magnetic core composition for an xDSL modem transformer as set forth in claim 1, having a main component comprised of MnO: 23.0 to 23.4 mol%, ZnO: 23.4 to 23.8 mol%, and Fe₂O₃: 53.0 to 53.4 mol%.

6-7. (Canceled)

8. (Currently Amended) ~~The A~~ magnetic core for an xDSL modem transformer as set forth in claim 6, having a main component comprised of MnO: 23.8 to 24.2 mol%, ZnO: 23.0 to 23.4 mol%, and Fe₂O₃: 52.6 to 53.0 mol%.

9. (Currently Amended) ~~The A~~ magnetic core for an xDSL modem transformer as set forth in claim 6, having a main component comprised of MnO: 26.1 to 26.5 mol%, ZnO: 20.1 to 20.5 mol%, and Fe₂O₃: 53.2 to 53.6 mol%.

10. (Currently Amended) ~~The A~~ magnetic core for an xDSL modem transformer as set forth in claim 6, having a main component comprised of MnO: 23.0 to 23.4 mol%, ZnO: 23.4 to 23.8 mol%, and Fe₂O₃: 53.0 to 53.4 mol%.

11-12. (Canceled)

13. (New) The magnetic core for an xDSL modem transformer as set forth in claim 8, the transformer having a total harmonic distortion of not more than -80 dB at 5kHz.

92 14. (New) The magnetic core for an xDSL modem transformer as set forth in claim 9, the transformer having a total harmonic distortion of not more than -80 dB at 5kHz.

15. (New) The magnetic core for an xDSL modem transformer as set forth in claim 10, the transformer having a total harmonic distortion of not more than -80 dB at 5kHz.